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File Code: 3410 **Date:** February 6, 2002
Route To:

Subject: 2001 Insect and Disease Aerial Detection Survey: Navajo Reservation

To: Area Director, Bureau of Indian Affairs, Navajo Area Office

The Forest Insect and Disease Aerial Detection Survey (ADS) was conducted over the Navajo Indian Reservation September 4-7 and September 25-26, 2001. Following is a brief summary of the results of this survey:

Mortality in ponderosa pine due to bark beetles was attributed to *Ips* spp. (74 acres) and western pine beetle (31 acres). Small pockets of mortality usually ranged from 1 to 10 trees and were scattered throughout the ponderosa pine type. Ponderosa pine mortality from bark beetles in 2000 was recorded on 425 acres. Pinyon *Ips*-related mortality was recorded on 5 acres of woodlands in 2001.

Spruce mortality was recorded on 57 acres in 2001, mainly in small pockets of 1 to 10 trees. This is a decrease from 265 acres in 2000. Douglas-fir mortality was recorded on 1 acre of Reservation land.

Aspen defoliation decreased from 8,125 acres in 2000 to 3,218 in 2001. Defoliation ranged from light to heavy and was scattered throughout the Chuska Mountains. Western spruce budworm defoliation was recorded on 4,540 acres. Defoliation was scattered throughout the Chuska and Lukachukai Mountains.

Fire was recorded on 1,287 acres of the Reservation.

Electronic copies of the map files and ADS pest data are also available to the Area Office and Navajo Forestry staff. We are in the process of creating hard copy maps of the 2001 ADS pest information and will be sending those in March. Please forward this letter to the appropriate personnel.

If you have any questions concerning the survey, the information included here, or the availability of electronic maps or pest data, please feel free to contact Bobbe Fitzgibbon (928-556-2072) at bfitzgibbon@fs.fed.us or Steve Dudley (928-556-2071) at sdudley@fs.fed.us.

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